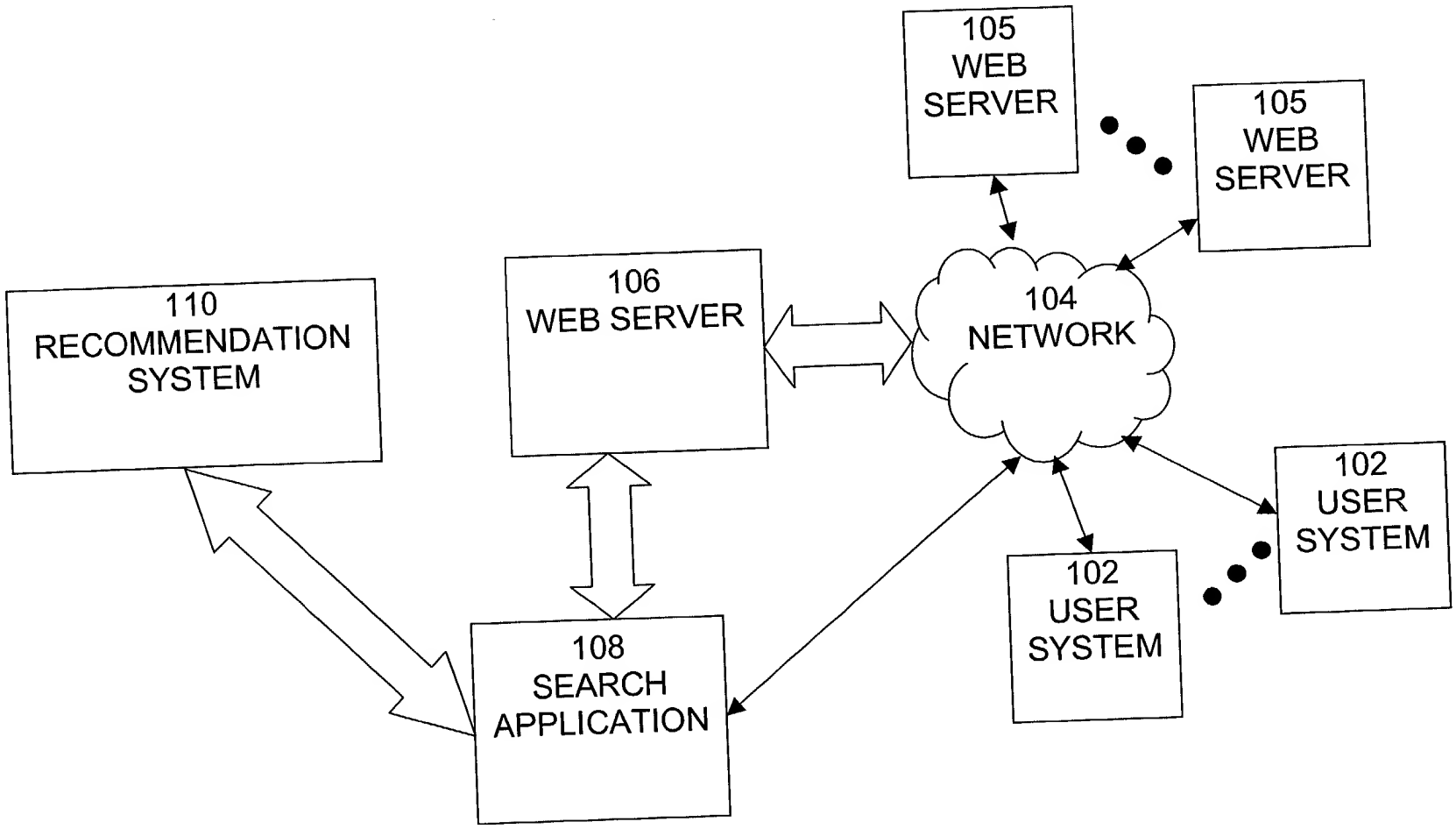
T02280 "506E660

Fig. 1



100

Fig. 2

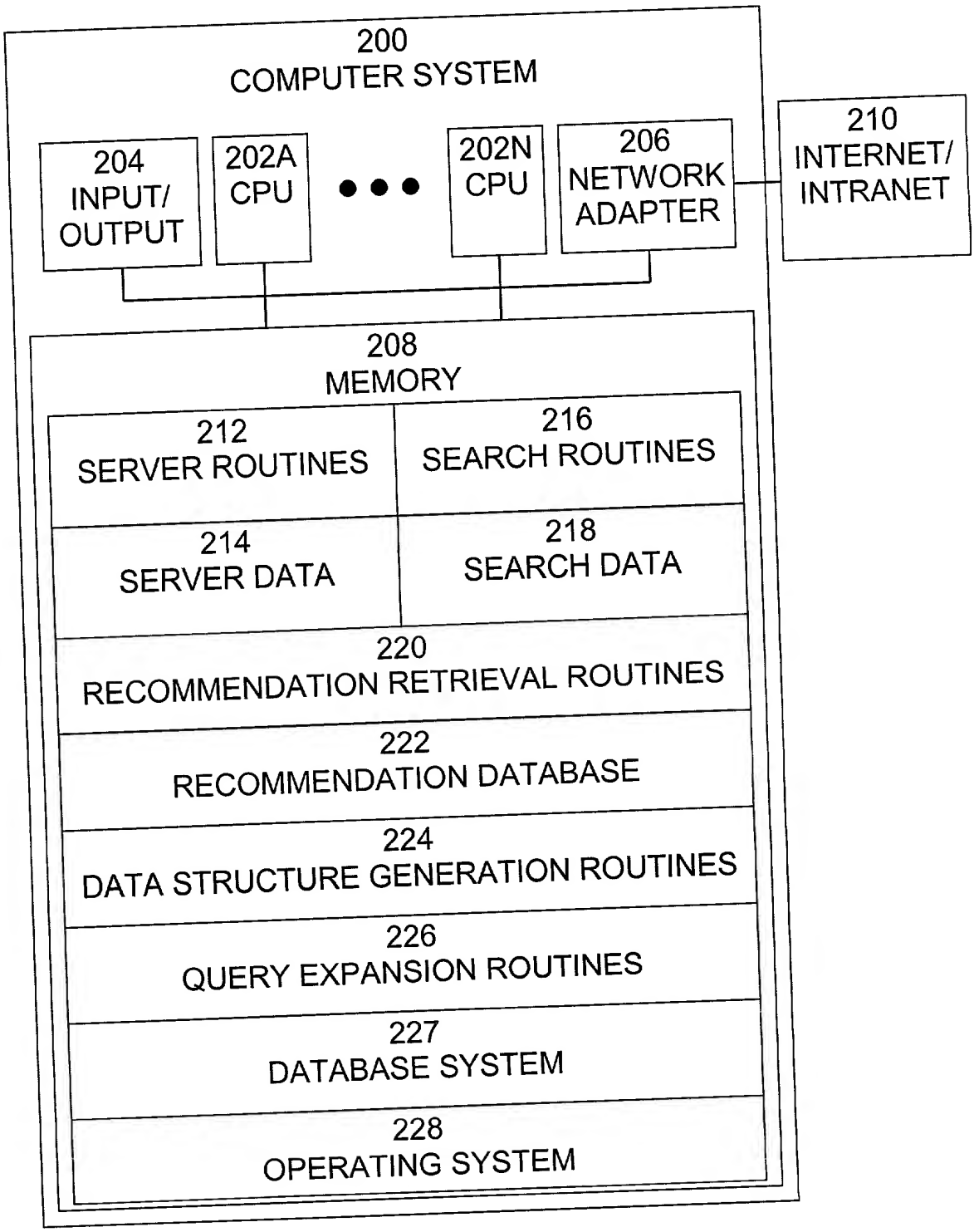

200
COMPUTER SYSTEM
204
INPUT/
OUTPUT
202A
CPU
202N
CPU
206
NETWORK
ADAPTER
210
INTERNET/
INTRANET
208
MEMORY
212
SERVER ROUTINES
216
SEARCH ROUTINES
214
SERVER DATA
218
SEARCH DATA
220
RECOMMENDATION RETRIEVAL ROUTINES
222
RECOMMENDATION DATABASE
224
DATA STRUCTURE GENERATION ROUTINES
226
QUERY EXPANSION ROUTINES
227
DATABASE SYSTEM
228
OPERATING SYSTEM

Fig. 3

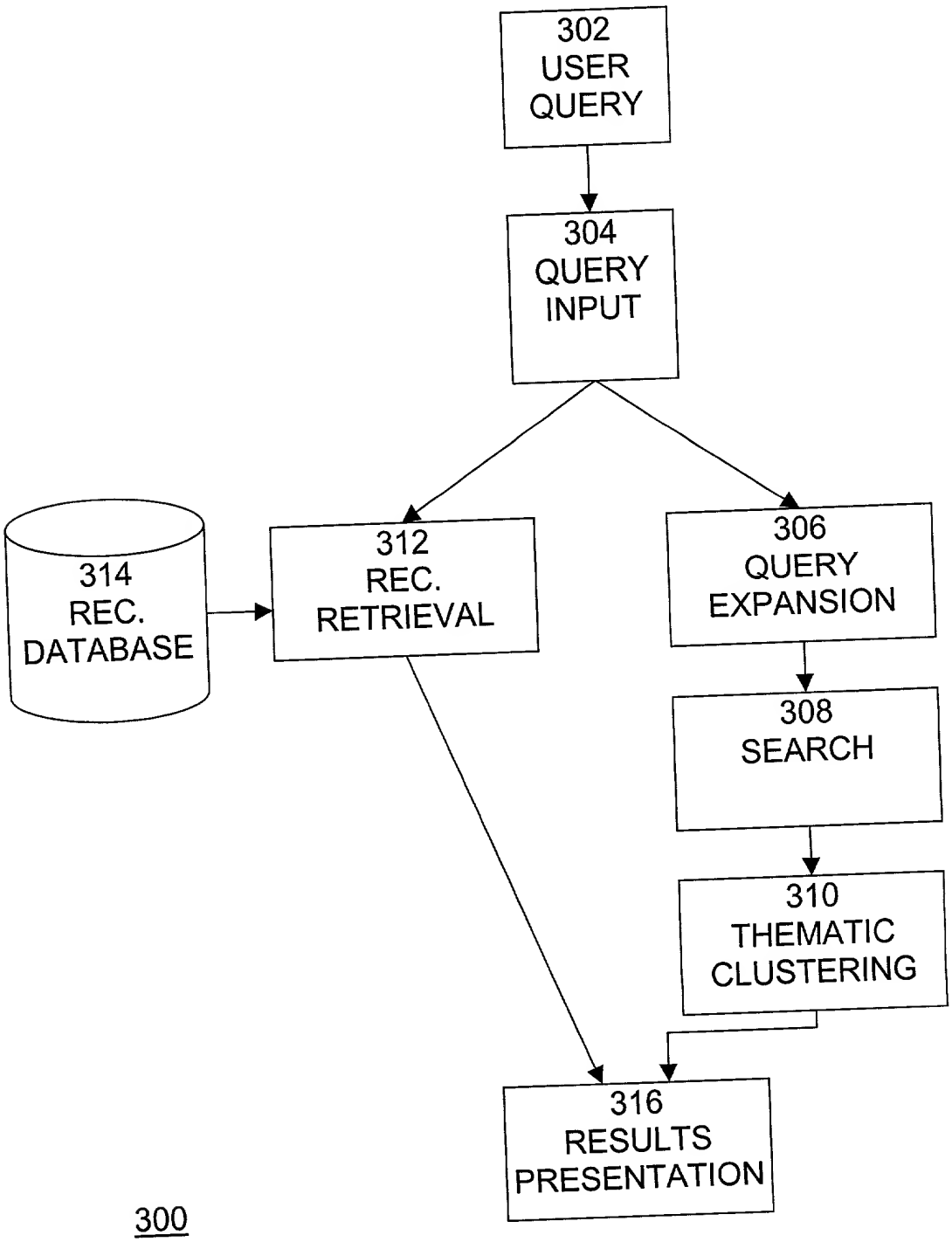

302
USER
QUERY
304
QUERY
INPUT
314
REC.
DATABASE
312
REC.
RETRIEVAL
306
QUERY
EXPANSION
308
SEARCH
310
THEMATIC
CLUSTERING
316
RESULTS
PRESENTATION
300

Fig. 4a

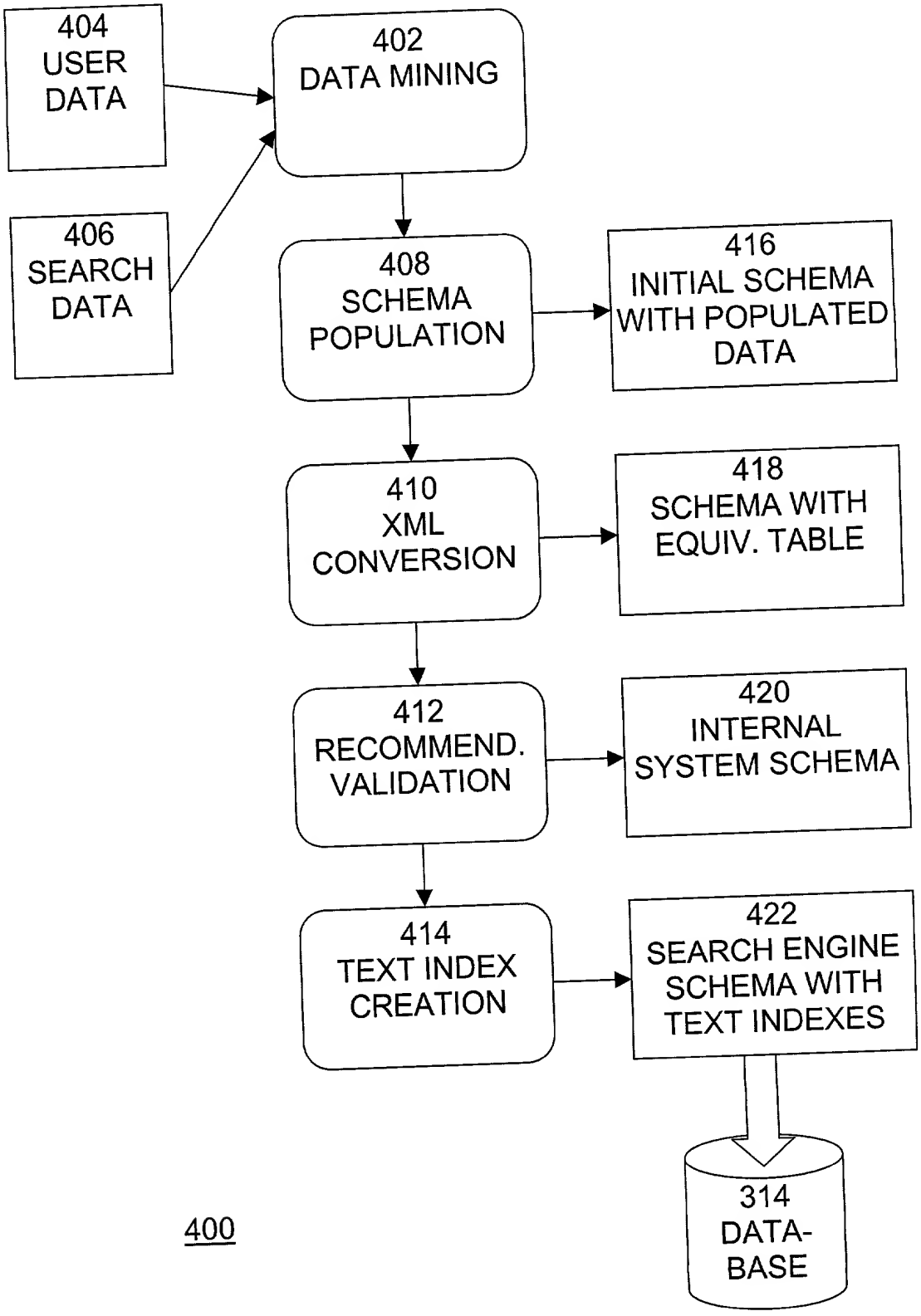

404
USER
DATA
406
SEARCH
DATA
402
DATA MINING
408
SCHEMA
POPULATION
416
INITIAL SCHEMA
WITH POPULATED
DATA
410
XML
CONVERSION
418
SCHEMA WITH
EQUIV. TABLE
412
RECOMMEND.
VALIDATION
420
INTERNAL
SYSTEM SCHEMA
414
TEXT INDEX
CREATION
422
SEARCH ENGINE
SCHEMA WITH
TEXT INDEXES
314
DATA-
BASE
400

Fig. 4b

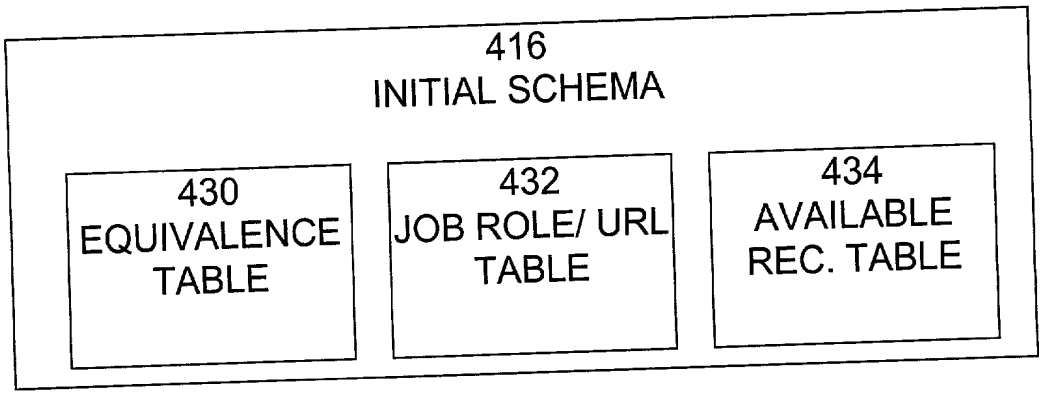

416
INITIAL SCHEMA
430
EQUIVALENCE TABLE
432
JOB ROLE/ URL TABLE
434
AVAILABLE REC. TABLE

Fig. 4c

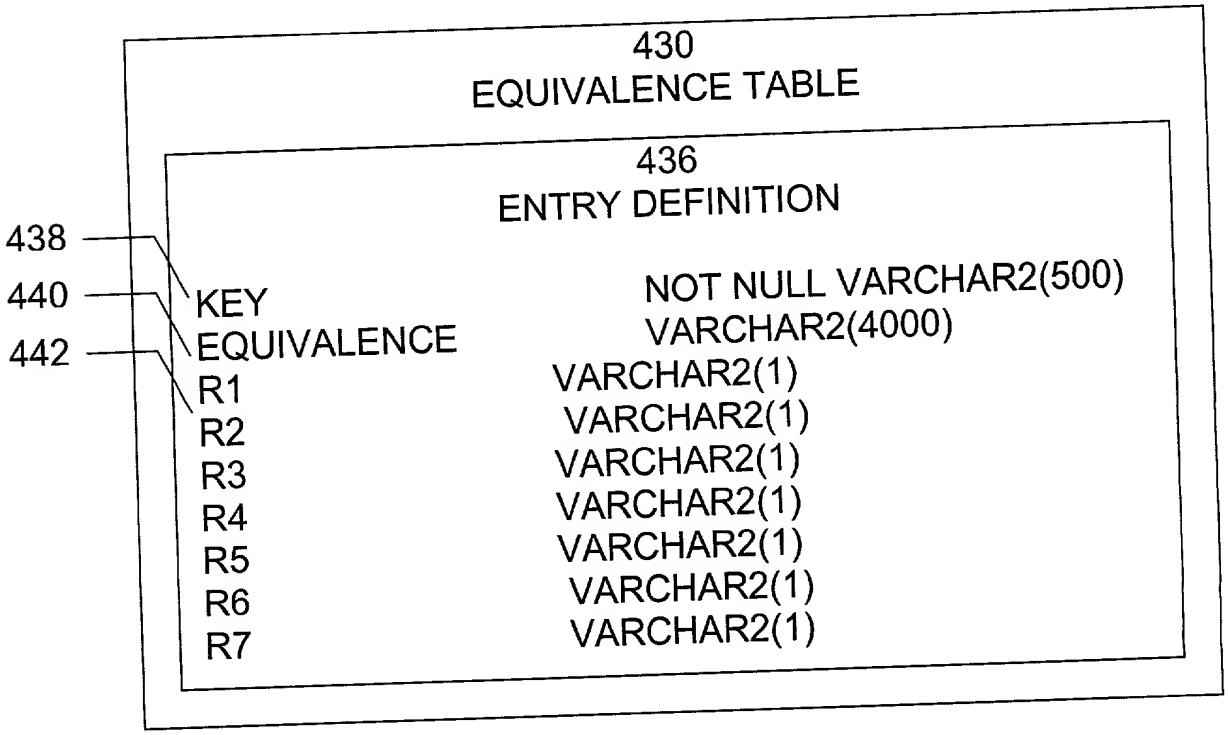

430
EQUIVALENCE TABLE
436
ENTRY DEFINITION
438
440
442
KEY NOT NULL VARCHAR2(500)
EQUIVALENCE VARCHAR2(4000)
R1 VARCHAR2(1)
R2 VARCHAR2(1)
R3 VARCHAR2(1)
R4 VARCHAR2(1)
R5 VARCHAR2(1)
R6 VARCHAR2(1)
R7 VARCHAR2(1)

Fig. 4d

444								
KEY	EQUIVALENCE	R 1	R 2	R 3	R 4	R 5	R 6	R 7
XML	XML; EXTENSIBLE MARK-UP LANGUAGE; EXTENSIBLE MARKUP LANGUAGE; EXTENSIBLE MARK UP LANGUAGE	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Fig. 4e

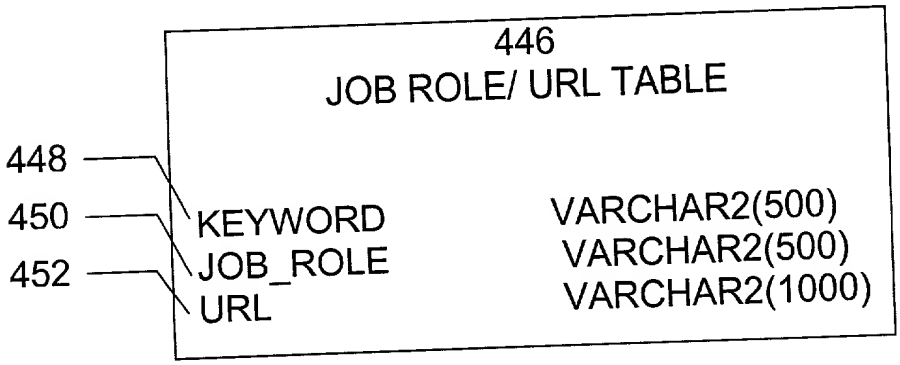


Fig. 4f

454		
KEYWORD	JOB_ROLE	URL
XML	DBA	HTTP://WWW.COMPANY.COM/XML

Fig. 4g

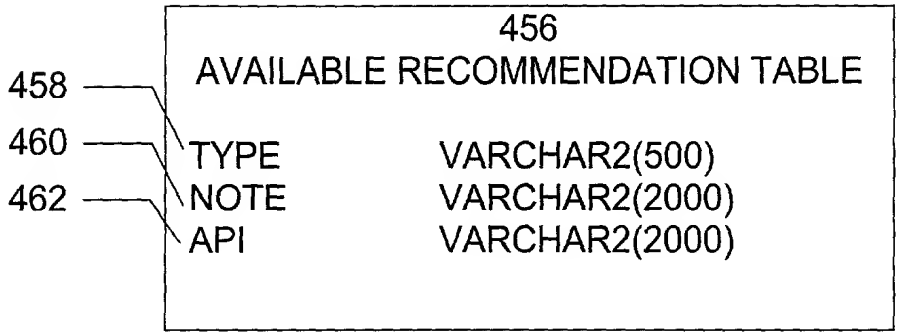


Fig. 4h

464		
TYPE	NOTE	API
R1	DOCUMENTATION FOR	HTTP://TAHITI.ORACLE.COM/ SEARCH?TERM=

Fig. 4i

466
XML FORMAT

```
<?xml version="1.0"?>
   <equivalence>
      <term>XML</term>
      <term>eXtensible Mark-up Language</term>
      <term>EXTENSIBLE MARKUP LANGUAGE</term>
      <term>eXtensible mark up language</term>
   </equivalence>
```

Fig. 4j

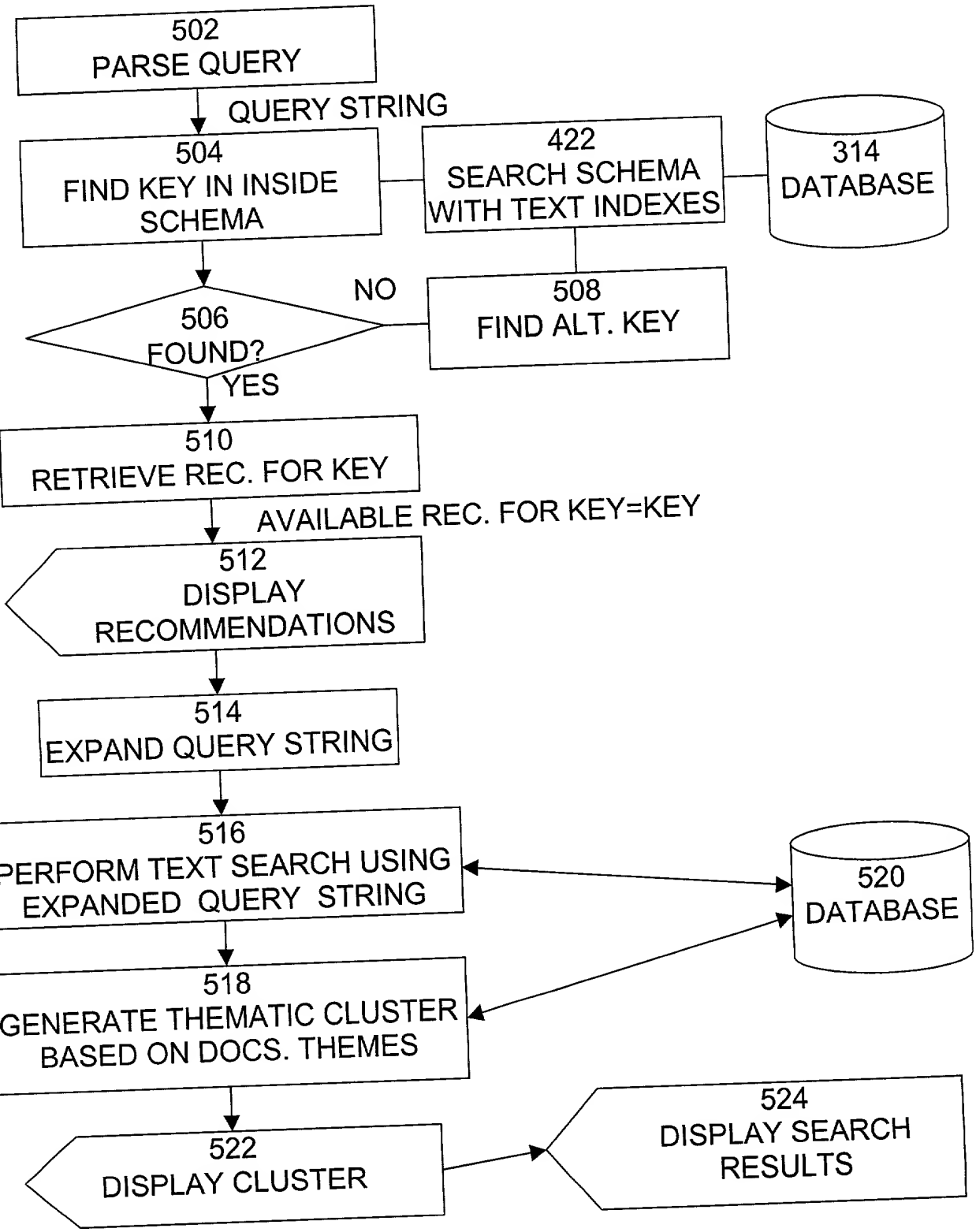
468

KEY	EQUIVALENCE	R1	R2	R3	R4	R5	R6	R7
XML	<?xml version="1.0"?> <equivalence> <term>XML</term> <term>eXtensible Mark-up Language</term> <term> EXTENSIBLE MARKUP LANGUAGE</term> <term>extensible mark up language</term> </equivalence>	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Fig. 4k

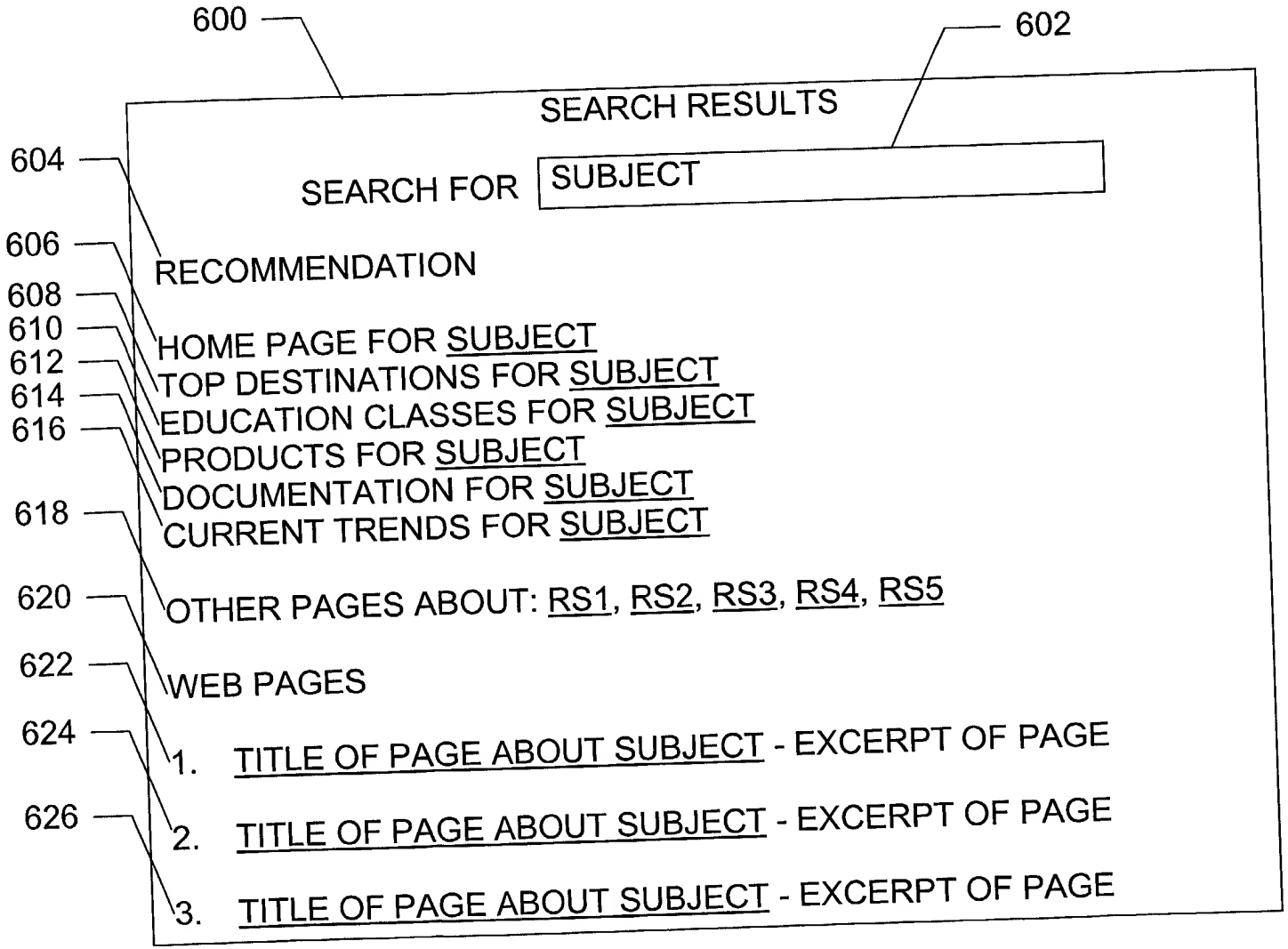
470								
KEY	EQUIVALENCE	R 1	R 2	R 3	R 4	R 5	R 6	R 7
XML	<?xml version="1.0"?> <equivalence> <term>XML</term> <term>eXtensible Mark-up Language </term> <term>EXTENSIBLE MARKUP LANGUAGE </term> <term>extensible mark up language </term> </equivalence>	T	T	F	F	T	F	T

Fig. 5


502
PARSE QUERY
QUERY STRING
504
FIND KEY IN INSIDE SCHEMA
422
SEARCH SCHEMA WITH TEXT INDEXES
314
DATABASE
506
FOUND?
NO
508
FIND ALT. KEY
YES
510
RETRIEVE REC. FOR KEY
AVAILABLE REC. FOR KEY=KEY
512
DISPLAY RECOMMENDATIONS
514
EXPAND QUERY STRING
516
PERFORM TEXT SEARCH USING EXPANDED QUERY STRING
520
DATABASE
518
GENERATE THEMATIC CLUSTER BASED ON DOCS. THEMES
522
DISPLAY CLUSTER
524
DISPLAY SEARCH RESULTS

500

Fig. 6


600
602
SEARCH RESULTS
SEARCH FOR SUBJECT
604
606
RECOMMENDATION
608
HOME PAGE FOR SUBJECT
610
TOP DESTINATIONS FOR SUBJECT
612
EDUCATION CLASSES FOR SUBJECT
614
PRODUCTS FOR SUBJECT
616
DOCUMENTATION FOR SUBJECT
CURRENT TRENDS FOR SUBJECT
618
OTHER PAGES ABOUT: RS1, RS2, RS3, RS4, RS5
620
WEB PAGES
622
1. TITLE OF PAGE ABOUT SUBJECT - EXCERPT OF PAGE
624
2. TITLE OF PAGE ABOUT SUBJECT - EXCERPT OF PAGE
626
3. TITLE OF PAGE ABOUT SUBJECT - EXCERPT OF PAGE